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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

STACHOWIAK

Atty. Ref.: 3691-623

Serial No. To be Assigned

Group:

Filed: December 24, 2003

Examiner:

For: LOW-E MATCHABLE COATED ARTICLES AND METHODS  
OF MAKING SAME

\* \* \* \* \*

December 24, 2003

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**INFORMATION DISCLOSURE STATEMENT**

- |                                     |  |                 |
|-------------------------------------|--|-----------------|
| <input checked="" type="checkbox"/> | 1. <b>PTO-1449 Pursuant to 37 CFR 1.97(b)</b><br>[within 3 months of filing or prior to 1st Office Action] | <i>N/C</i>      |
| <input type="checkbox"/>            | 2. <b>Statement Pursuant to 37 CFR 1.97(c)</b><br>[before Final Office Action and Allowance]               | <i>N/C</i>      |
| <input type="checkbox"/>            | 3. <b>Fee Payment Pursuant to 37 CFR 1.97(c)</b><br>[before Final Office Action and Allowance]             | <i>\$180.00</i> |
| <input type="checkbox"/>            | 4. <b>Pursuant to 37 CFR 1.97(d)</b><br>[before Issue Fee payment]   | <i>\$180.00</i> |

The following are submitted in the above-identified application in compliance with 37 C.F.R. §§ 1.97 and 1.98:

- ☒ 5. A list of documents on Form PTO-1449. Actual copies of the references listed on the attached form PTO-1449 are not included herewith in accordance with MPEP §609, these references being previously submitted in any and all of the parent applications. The parent application includes U.S. application Serial No. 10/310,854.

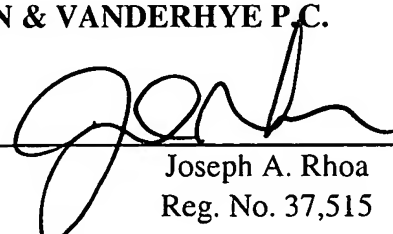
This paper is submitted in accordance with:

- ☒ 6. 37 CFR 1.97(b): [within 3 months of filing or prior to 1st Office Action]
- ☐ 7. 37 CFR 1.97(c): [before Final Office Action and Allowance, whichever is earlier]; and
- ☐ a) The required Statement made in item 9 below; or
- ☐ b) The \$180.00 fee specified in 37 CFR §1.17(p) for submission of this Information Disclosure Statement is authorized in item 10 below.
- ☐ 8. 37 CFR §1.97(d): [before issue fee payment]; and
- ☐ a) The fee (\$180.00) required by 37 CFR §1.17(p) is authorized in item 10 below; and
- ☐ b) The required Statement is stated in item 9 below.
- ☐ 9. Statement under 37 CFR 1.97(e)
- ☐ a) The undersigned attorney of record hereby certifies under 37 C.F.R. §1.97(e) that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement (each item contained in this IDS was the first citation of that item by a foreign patent office in a counterpart foreign application which occurred no more than three months prior to the filing of this IDS); or
- ☐ b) No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement, after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.
- ☒ 10. Please charge all applicable fees associated with the submission of this Information Disclosure Statement and any other fees applicable to this application to Deposit Account No. 14-1140. An original and one (1) copy of this document are enclosed.

Respectfully submitted,

**NIXON & VANDERHYE P.C.**

By:

  
\_\_\_\_\_  
Joseph A. Rhoa  
Reg. No. 37,515

STACHOWIAK

Serial No. To be Assigned

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Facsimile: (703) 816-4100

**INFORMATION DISCLOSURE  
CITATION**

ATTY. DOCKET NO.

3691-623

SERIAL NO.

To be Assigned

APPLICANT

STACHOWIAK

(Use several sheets if necessary)

FILING DATE

December 24, 2003

GROUP

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,558,800	5/2003	Stachowiak			
	6,514,620	2/2003	Lingle et al.			
	6,495,263	12/2002	Stachowiak			
	6,602,608	8/2003	Stachowiak			
	6,524,714	2/2003	Neuman et al.			
	6,589,658	7/2003	Stachowiak			
	6,586,102	7/2003	Stachowiak			
	6,605,358	8/2003	Stachowiak			
	6,475,626	11/2002	Stachowiak			
	5,521,765	5/1996	Wolfe			
	5,800,933	9/1998	Hartig et al.			
	6,014,872	1/2000	Hartig et al.			
	6,059,909	5/2000	Hartig et al.			
	6,132,881	10/2000	Hartig et al.			
	6,159,607	12/2000	Hartig et al.			
	5,942,338	8/1999	Arbab et al.			
	3,682,528	8/1972	Apfel et al.			
	5,377,045	12/1994	Wolfe et al.			
	5,188,887	2/1993	Lingle et al.			
	6,475,626	11/2002	Stachowiak			

**FOREIGN PATENT DOCUMENTS**

DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO
WO 01/21540	3/2001	WIPO				

**OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)**

	U.S. Patent Application Serial No. 10/310,854 filed December 6, 2002
	U.S. Patent Application Serial No. 10/246,617 filed September 19, 2002
	Technical Digest 1995, "Optical Interference Coatings", WOLFE et al., Vol. 17, pgs. 115-117
	"Heat Insulating Glass Which Can be Thermally Worked", Hironobu, 05124839, 10/1991
*Examiner	Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)



INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

(Use separate sheets if necessary)

STAGECHECK

Date Due  
December 24, 2003

Class and Unit

## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	PLING DATE & APPROPRIATE
	4413877		Suzuki et al			
	48106220		Finley			
	48198789		Finley			
	4898790		Finley			
	5028759		Finley			
	5059295		Finley			
	5270517		Finley			
	5902505		Finley			

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Page(s), Etc.)

Fan et al., "Transparent heat mirrors for solar-energy applications," Applied Optics, Vol. 15, No. 4, April 1976

Fan et al., "Transparent heat-mirror films of TiO<sub>2</sub>/Ag/TiO<sub>2</sub> for solar energy collection and radiation insulation," Appl. Physics Letters, Vol. 25, No. 12, December 15, 1974

DATE CONSIDERED

EXAMINER

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 509; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTC-1443

INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

(This form must be submitted)

3691-623

STAGEWORK

Date: December 24, 2003

## U. S. PATENT DOCUMENTS

EXAMINER (INITIAL)	DOCUMENT NUMBER	DATE	AUTHOR	CLASS	RECLASS	FILED DATE IF APPROPRIATE
	3272986	9/66	Schmidt			
	3681042	8/72	Edwards et al.			
	3798146	3/74	Chong et al.			
	3826728	7/74	Chambers et al.			
	3935351	1/76	Franz et al.			
	4166018	8/79	Chapin et al.			
	4413877	11/83	Suzuki et al.			
	4462883	7/84	Hart			
	4594137	6/86	Gillery et al.			
	4680742	7/87	Yamada et al.			
	4715879	12/87	Schmitte et al.			

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	RECLASS	FILED DATE IF APPROPRIATE
0301755	2/89	EPO			
0332717	9/89	EPO			
0386993	9/90	EPO			
0456487	11/91	EPO			
0546302	6/93	EPO			

## OTHER DOCUMENTS (Including Author, Title, Date, Reference, Page, etc.)

AIRC Super-E III Coating Process Release

AIRC Super-E IV Technology Process Release, P. 1-25

1991 Proposed ASTM Standard Test Method for Measuring and Calculating

Emission of Architectural Flat Glass Products Using Radiometric Measurements

EXAMINER

DATE RECEIVED

EXAMINER: Initial if citation considered. - Author or not considered in performance with MPEP 1.509. Draw line through citation if not in performance and not considered. Includes copy of this form with next communication to the applicant.



S-7

Form PTO-443

INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

(SEE INSTRUCTIONS)

369L-623

STAGEWORKER

December 24, 2003

## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	AUTHOR	CLASS	REMARKS	STATUS PENDING GRANTED
	4769291	9/88	Balkind et al.			
	4780370	10/88	Tracy et al.			
	4790922	12/88	Heffer			
	4816034	3/89	Bhatt et al.			
	4826525	5/89	Chesworth et al.			
	4857094	8/89	Groth et al.			
	4948482	5/90	Kabayashi et al.			
	4954232	9/90	Yamada et al.			
	4960645	10/90	Lingle et al.			
	5062937	11/91	Komuro			
	5188887	2/93	Lingle et al.			

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	REMARKS	STATUS PENDING GRANTED
0546470	6/93	EPO			
0567735	11/93	EPO			
0622645	11/94	EPO			
0717014	6/96	EPO			
0722913	7/96	EPO			

## OTHER DOCUMENTS (Including Author, Title, Date, Patent Office, Etc.)

ASTM Designation: E 434-71 "Standard Test Methods for Solar Energy Transmittance and Reflectance (Terrestrial) of Sheet Materials."

"Principles of Design of Architectural Coatings", Applied Optics Vol. 22,

No. 24, December 15, 1983.

"Performance and Sputtering Criteria of Modern Architectural Glass Coatings"

SPE Vol. 325, Optical Thin Films (1992).

EXAMINER

DATE DISCLOSED

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Form PTO-145

INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

3641-623

STACEOWEAR

December 24, 2003

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	INVENTOR	CASE	REMARKS	FILED DATE 12 1990 DATE
	52291194	7/93	Lingle et al.			
	5242560	9/93	Lingle et al.			
	53144718	9/94	Hartig et al.			
	5376455	12/94	Hartig et al.			
	53771045	12/94	Wolfe et al.			
	5403458	4/95	Hartig et al.			
	5514476	5/96	Hartig et al.			
	5543229	8/96	Ohseki et al.			
	5563734	10/96	Wolfe et al.			
	5688585	11/97	Lingle et al.			
	5770321	6/98	Hartig et al.			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CASE	REMARKS	Translation YES NO
07471329	12/96	EPO			
9002653	3/90	WO			
9005439	5/90	WO			
90018334	7/90	WO			
95113189	5/95	WO			

OTHER DOCUMENTS (including Abstract, Ref. Cites, Foreign Patent, Etc.)

EP Search Report, EP 96 10 4113

EXAMINER: (Initial if document is pertinent, otherwise do not mention it in communication with NPEP) (See Note through division if not in communication and not pertinent. Indicate any other form with next communication to the applicant.)

Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <small>(Use separate sheets for continuations)</small>	Serial Number (U.S. Patent) <b>3891-623</b>	Serial Number (Foreign Patent)
	Location <b>STACEOWIAK</b>	Location
	Filing Date <b>Dec. 24, 2003</b>	Class and Div.

U. S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	REMARKS	REMARKS BY EXAMINER
	59371108	11/93	Lingale et al.			
	55571462	9/96	Hartia et al.			
	4965121	10/90	Yung et al.			
	4179181	12/70	Chang			
	4799745	5/99	Meyer et al.			

FOREIGN PATENT DOCUMENTS						
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	REMARKS	Translation	
					YES	NO
9403333	2/94	WO				
2279365	1/95	GB				

OTHER DOCUMENTS (including Abstract, Test Data, Research Reports, Etc.)						

EXAMINER	DATE DISCLOSED
EXAMINER: Initial if citation considered. Whether or not citation is in conformance with MPEP § 509. Draw line through citation if not in conformance and not considered. Includes copy of this form with next communication to the applicant.	